

CLAIMS

What is claimed is:

- 1 1. A method comprising:
2 establishing a file transfer session between an information transferring network
3 device that has entered a debug mode and a server, a name of a last known good image
4 and configuration file pair being stored on the network device, the last known good
5 image and configuration file pair being stored on the server; and
6 requesting a transfer of the last known good image and configuration file pair
7 from the server to the network device.
- 1 2. The method of claim 1 further comprising detecting the network device
2 in fatal mode and entering the debug mode on the network device upon detecting the
3 network device in fatal mode.
- 1 3. The method of claim 1 further comprising receiving a command of a user
2 and entering the debug mode on the network device upon receiving the command of the
3 user.
- 1 4. The method of claim 1 wherein the file transfer session is a Trivial File
2 Transfer Protocol (TFTP) session.

1 8. A method comprising:
2 detecting that an information transferring network device has entered a debug
3 mode, a name of a last known good image and configuration file pair being stored on
4 the network device;
5 establishing a first file transfer session between the network device and a first
6 server, a first image and configuration file pair being stored on the first server;
7 determining whether the first image and configuration file pair is the last known
8 good image and configuration file pair;
9 establishing a second file transfer session between the network device and a
10 second server, a second image and configuration file pair being stored on the second
11 server;
12 determining whether the second image and configuration file pair is the last
13 known good image and configuration file pair; and
14 requesting a transfer of one of the first or second image and configuration file
15 pair that is the last known good image and configuration file pair from the server to the
16 network device.

1 9. The method of claim 8 further comprising detecting the network device
2 in fatal mode and entering the debug mode on the network device upon detecting the
3 network device in fatal mode.

1 10. The method of claim 8 further comprising receiving a command of a user
2 and entering the debug mode on the network device upon receiving the command of the
3 user.

1 15. The apparatus of claim 14 further comprising detecting the network
2 device in fatal mode and entering the debug mode on the network device upon detecting
3 the network device in fatal mode.

1 16. The apparatus of claim 14 further comprising receiving a command of a
2 user and entering the debug mode on the network device upon receiving the command
3 of the user.

1 17. The apparatus of claim 14 wherein the file transfer session is a Trivial
2 File Transfer Protocol (TFTP) session.

1 18. The apparatus of claim 14 further comprising receiving the transfer of the
2 last known good image and configuration file pair from the server to the network
3 device.

1 19. The apparatus of claim 18 further comprising automatically restoring the
2 network device from debug mode to working mode after receiving the transfer of the
3 last known good image and configuration file pair from the server to the network
4 device.

1 20. The apparatus of claim 14 wherein establishing a file transfer session
2 between an information transferring network device that has entered a debug mode and
3 a server includes

4 establishing a first file transfer session with a first server, a first image and
5 configuration file pair being stored on the first server,
6 determining whether the first image and configuration file pair is the last known
7 good image and configuration file pair,
8 establishing a second file transfer session with a second server, a second image
9 and configuration file pair being stored on the second server,
10 determining whether the second image and configuration file pair is the last
11 known good image and configuration file pair, and
12 wherein the method further includes requesting a transfer of one of the first or
13 second image and configuration file pair that is the last known good image and
14 configuration file pair from the server to the network device.

1 21. An apparatus comprising a machine accessible medium containing
2 instructions which, when executed by a machine, cause the machine to perform
3 operations comprising:
4 detecting that an information transferring network device has entered a debug
5 mode, a name of a last known good image and configuration file pair being stored on
6 the network device;
7 establishing a first file transfer session between the network device and a first
8 server, a first image and configuration file pair being stored on the first server;
9 determining whether the first image and configuration file pair is the last known
10 good image and configuration file pair;

11 establishing a second file transfer session between the network device and a
12 second server, a second image and configuration file pair being stored on the second
13 server;
14 determining whether the second image and configuration file pair is the last
15 known good image and configuration file pair; and
16 requesting a transfer of one of the first or second image and configuration file
17 pair that is the last known good image and configuration file pair from the server to the
18 network device.

1 22. The apparatus of claim 21 further comprising detecting the network
2 device in fatal mode and entering the debug mode on the network device upon detecting
3 the network device in fatal mode.

1 23. The apparatus of claim 21 further comprising receiving a command of a
2 user and entering the debug mode on the network device upon receiving the command
3 of the user.

1 24. The apparatus of claim 21 wherein the file transfer session is a Trivial
2 File Transfer Protocol (TFTP) session.

1 25. The apparatus of claim 21 further comprising receiving the transfer of the
2 last known good image and configuration file pair from the server to the network
3 device.

